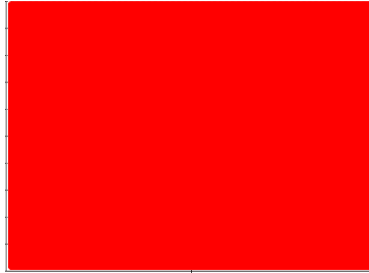




# FUEL REPORT

Sample Rating Trend

ISO



Machine Id  
**0J029995**

Component  
**Diesel Fuel**

Fluid  
**No.2 DIESEL FUEL (LOW-SULPHUR) (--- GAL)**

## DIAGNOSIS

### Recommendation

We advise that you check all areas where contaminants can enter the system. Laboratory test indicate that this fuel is suitable for use and meets all test requirements. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you filter this fluid before use. Resample in 30-45 days to monitor this situation.

### Corrosion

(not applicable)

### Contaminants

There is a high amount of particulates (2 to 100 microns in size) present in the fuel. The water content is negligible.

### Fuel Condition

The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels. All laboratory tests indicate that this sample meets specifications for No.2 diesel fuel, low sulfur (US EPA/CGSB-3.517-3 type B).

| SAMPLE INFORMATION |             | method      | limit/base | current            | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|----------|----------|
| Sample Number      | Client Info |             |            | <b>WC0845353</b>   | ---      | ---      |
| Sample Date        | Client Info |             |            | <b>31 Aug 2023</b> | ---      | ---      |
| Machine Age        | hrs         | Client Info |            | <b>0</b>           | ---      | ---      |
| Sample Status      |             |             |            | <b>SEVERE</b>      | ---      | ---      |

| PHYSICAL PROPERTIES        |      | method         | limit/base | current      | history1 | history2 |
|----------------------------|------|----------------|------------|--------------|----------|----------|
| Specific Gravity           |      | ASTM D1298*    | 0.839      | <b>0.829</b> | ---      | ---      |
| Fuel Color                 | text | Visual Screen* | Yllow      | <b>Pink</b>  | ---      | ---      |
| Visc @ 40°C                | cSt  | ASTM D7279(m)  | 3.0        | <b>2.4</b>   | ---      | ---      |
| Pensky-Martens Flash Point | °C   | ASTM D7215*    | 52         | <b>59.9</b>  | ---      | ---      |

| SULFUR CONTENT |     | method        | limit/base | current   | history1 | history2 |
|----------------|-----|---------------|------------|-----------|----------|----------|
| Sulfur         | ppm | ASTM D5185(m) | 250        | <b>19</b> | ---      | ---      |

| DISTILLATION           |    | method      | limit/base | current    | history1 | history2 |
|------------------------|----|-------------|------------|------------|----------|----------|
| Initial Boiling Point  | °C | ASTM D2887* | 165        | <b>170</b> | ---      | ---      |
| 5% Distillation Point  | °C | ASTM D2887* |            | <b>190</b> | ---      | ---      |
| 10% Distill Point      | °C | ASTM D2887* | 201        | <b>199</b> | ---      | ---      |
| 15% Distillation Point | °C | ASTM D2887* |            | <b>207</b> | ---      | ---      |
| 20% Distill Point      | °C | ASTM D2887* | 216        | <b>214</b> | ---      | ---      |
| 30% Distill Point      | °C | ASTM D2887* | 230        | <b>229</b> | ---      | ---      |
| 40% Distill Point      | °C | ASTM D2887* | 243        | <b>242</b> | ---      | ---      |
| 50% Distill Point      | °C | ASTM D2887* | 255        | <b>256</b> | ---      | ---      |
| 60% Distill Point      | °C | ASTM D2887* | 267        | <b>270</b> | ---      | ---      |
| 70% Distill Point      | °C | ASTM D2887* | 280        | <b>284</b> | ---      | ---      |
| 80% Distill Point      | °C | ASTM D2887* | 295        | <b>299</b> | ---      | ---      |
| 85% Distillation Point | °C | ASTM D2887* |            | <b>310</b> | ---      | ---      |
| 90% Distill Point      | °C | ASTM D2887* | 310        | <b>321</b> | ---      | ---      |
| 95% Distillation Point | °C | ASTM D2887* |            | <b>339</b> | ---      | ---      |
| Final Boiling Point    | °C | ASTM D2887* | 341        | <b>356</b> | ---      | ---      |

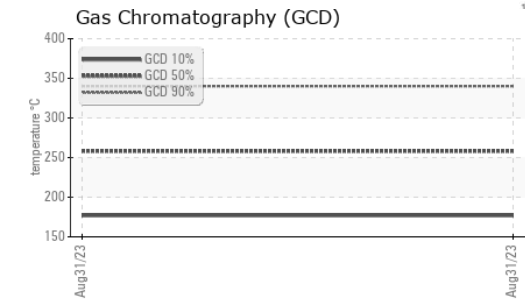
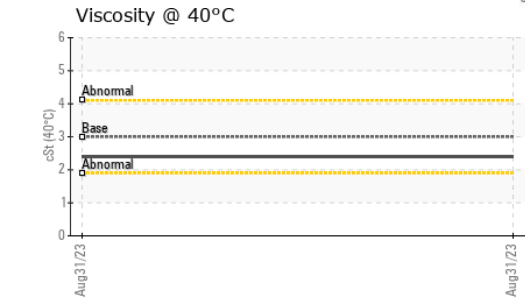
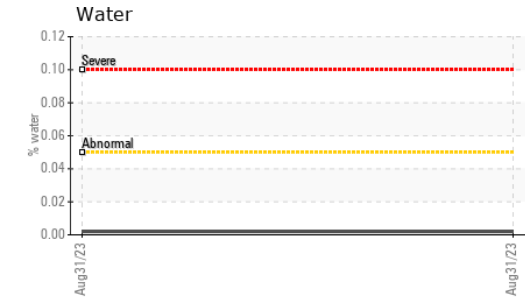
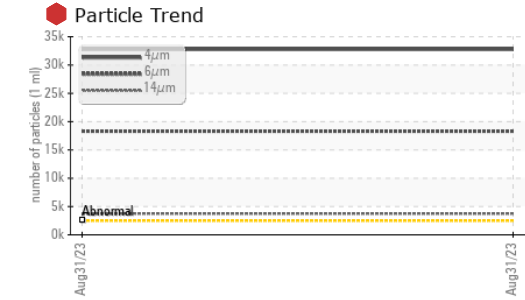
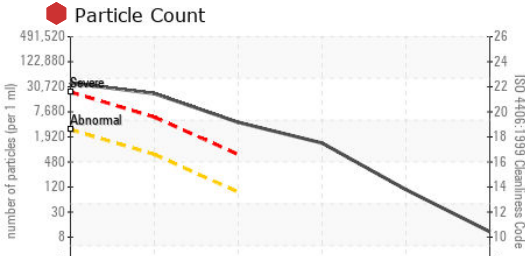
| IGNITION QUALITY |  | method      | limit/base | current   | history1 | history2 |
|------------------|--|-------------|------------|-----------|----------|----------|
| API Gravity      |  | ASTM D1298* | 37.7       | <b>39</b> | ---      | ---      |
| Cetane Index     |  | ASTM D4737* | <40.0      | <b>51</b> | ---      | ---      |

| CONTAMINANTS |     | method        | limit/base | current      | history1 | history2 |
|--------------|-----|---------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185(m) | <1.0       | <b>0</b>     | ---      | ---      |
| Sodium       | ppm | ASTM D5185(m) | <0.1       | <b>0</b>     | ---      | ---      |
| Potassium    | ppm | ASTM D5185(m) | <0.1       | <b>&lt;1</b> | ---      | ---      |
| Water        | %   | ASTM D6304*   | <0.05      | <b>0.002</b> | ---      | ---      |
| ppm Water    | ppm | ASTM D6304*   | <500       | <b>15.3</b>  | ---      | ---      |

| FLUID CLEANLINESS |  | method       | limit/base | current         | history1 | history2 |
|-------------------|--|--------------|------------|-----------------|----------|----------|
| Particles >4µm    |  | ASTM D7647   | >2500      | <b>32779</b>    | ---      | ---      |
| Particles >6µm    |  | ASTM D7647   | >640       | <b>18306</b>    | ---      | ---      |
| Particles >14µm   |  | ASTM D7647   | >80        | <b>3744</b>     | ---      | ---      |
| Particles >21µm   |  | ASTM D7647   | >20        | <b>1198</b>     | ---      | ---      |
| Particles >38µm   |  | ASTM D7647   | >4         | <b>92</b>       | ---      | ---      |
| Particles >71µm   |  | ASTM D7647   | >3         | <b>9</b>        | ---      | ---      |
| Oil Cleanliness   |  | ISO 4406 (c) | >18/16/13  | <b>22/21/19</b> | ---      | ---      |



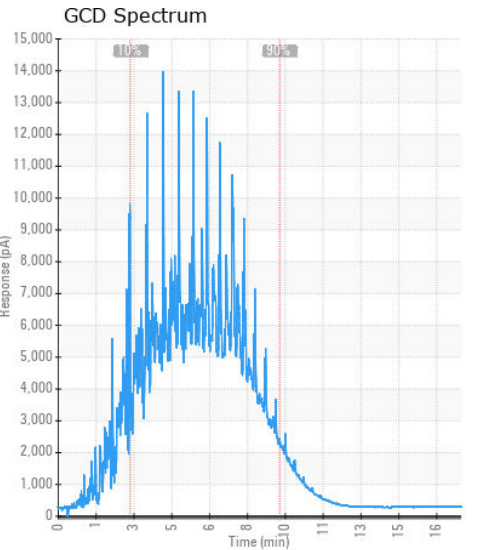
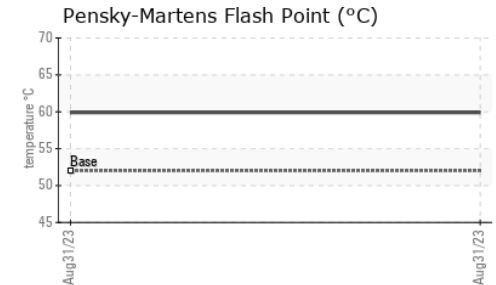
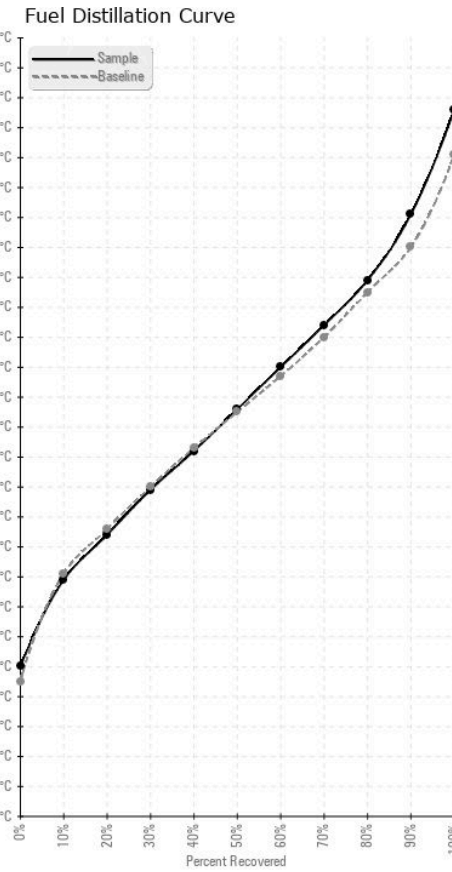
# FUEL REPORT



| HEAVY METALS | method | limit/base    | current | history1 | history2 |
|--------------|--------|---------------|---------|----------|----------|
| Aluminum     | ppm    | ASTM D5185(m) | <0.1    | 0        | ---      |
| Nickel       | ppm    | ASTM D5185(m) | <0.1    | 0        | ---      |
| Lead         | ppm    | ASTM D5185(m) | <0.1    | 0        | ---      |
| Vanadium     | ppm    | ASTM D5185(m) | <0.1    | 0        | ---      |
| Iron         | ppm    | ASTM D5185(m) | <0.1    | <1       | ---      |
| Calcium      | ppm    | ASTM D5185(m) | <0.1    | <1       | ---      |
| Magnesium    | ppm    | ASTM D5185(m) | <0.1    | 0        | ---      |
| Phosphorus   | ppm    | ASTM D5185(m) | <0.1    | <1       | ---      |
| Zinc         | ppm    | ASTM D5185(m) | <0.1    | <1       | ---      |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
| Color         |        |            |         | no image | no image |
| Bottom        |        |            |         | no image | no image |

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0845353 **Received** : 01 Sep 2023  
**Lab Number** : 02580141 **Diagnosed** : 05 Sep 2023  
**Unique Number** : 5633201 **Diagnostician** : Kevin Marson  
**Test Package** : FUEL ( Additional Tests: CC Flash, GC-PercFuel, PrtCount )

**GENREP LIMITED**  
 25 GIFFORD STREET  
 NEPEAN, ON  
 CA K2E 7S3  
 Contact: BRENDA PINSENT  
 bpinsent@ott.genrep.com  
 T:

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.

F: (613)225-4690